

## Claims

1. An electric double layer capacitor, comprising:
  - a separator;
  - a pair of polarizing electrodes, disposed opposite to each other with the
  - 5 separator interposed therebetween;
  - an electrolytic solution, impregnated in a pair of the polarizing electrodes and the separator;
  - an exterior cover and an exterior case, accommodating the separator, a pair of
  - the polarizing electrodes and the electrolytic solution; and
  - 10 a gasket, disposed between the outer circumferential part of the exterior cover and the inner circumferential part of the exterior case, storage space formed by the exterior case and the exterior cover being hermetically sealed by inwardly bending the opening tip portion of the exterior case;
  - wherein no folded-back part is provided at the outer circumferential part of the
  - 15 exterior cover, and the gasket is polyether ether ketone.
2. The electric double layer capacitor according to claim 1, wherein thickness of the exterior cover is larger than thickness of the exterior case.
- 20 3. The electric double layer capacitor according to claim 1, wherein a concave portion in which the gasket goes is formed in the opening tip portion of the exterior cover.
4. The electric double layer capacitor according to claim 3, wherein a shape of the
- 25 cross section of the concave portion is any of a concave shape, a letter V shape, and a

letter U shape.

5. The electric double layer capacitor according to claim 1, wherein the gasket has been heat treated at 260 °C or more.

5